BioHorizons Implant Systems, Inc.

The Maestro System™ 7mm & 10.5mm 510(k) Notification: Special 510(k) - Device Modification

02/10/03

510(k) summary

21 CFR 807.92

K030463

Date:

02/10/03

Official Contact:

Winston Greer, Director, QA & RA

FEB 2 6 2003

Manufacturer:

BioHorizons Implant Systems, Inc.

One Perimeter Park South

Suite 230 South

Birmingham, AL 35243 Phone: (205) 967-7880 Fax: (205) 870-0304

Proprietary Name

The Maestro System™

Common Name

Screw-type Dental Implant

Classification Name

Endosseous implants, surgical components, and prosthetic attachments

Predicate Device

The predicate device is The Maestro System TM, a screw-type dental implant manufactured and distributed by BioHorizons Implant Systems Inc. Authorization to legally market the predicate BioHorizons Maestro System dental implants has been documented under the following 510(k) numbers: K960026, K964330, K972313, K010458, K020133, K020645, and K022795.

Device Description

The 7mm and 10.5mm length Maestro System dental implants are a machined titanium, screw-form implant supplied in diameters of 3.5mm, 4mm and 5mm. Implant raw material is titanium alloy as specified in ASTM F136 - Specification for Wrought Titanium 6AL-4V ELI Alloy for Surgical Implant Applications.

The device is further processed by treating the surface with resorbable blast media (RBM) or coating with synthetic hydroxylapatite (HA). The product is packaged using materials known in the industry to be appropriate for medical device packaging and is provided with a minimum sterility assurance level of 10⁻⁶, validated in compliance to ANSI/AAMI/ISO 11137, Sterilization of healthcare products - Requirements for validation and routine control - Radiation sterilization.

The Maestro System TM is a comprehensive system containing implants, surgical components, and prosthetic components. The implants are specifically designed to optimize strain distribution to contiguous bone under functional loading in order to promote strain-induced bone growth and interface maintenance over the long term. This is achieved by optimizing implant designs based on bone quality.

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The following table provides a summary of the proposed new implant sizes.

Diameter (mm)	Lengths (mm)	Design	Coating	Catalog REF Numbers
	7, 10.5	D3	RBM	3507D3, 35105D3
φ3.5	7		HA	3507D3-HA
ф4	10.5	D2	RBM	40105D2
	7, 10.5	D3	RBM	4007D3, 40105D3
	7		HA	4007D3-HA
	7, 10.5	D4	RBM	40105D4
φ5	10.5	D2	RBM	50105D2
	7, 10.5	D3	RBM	5007D3, 50105D3
	7		HA	5007D3-HA
	7, 10.5	D4	RBM	50105D4

Intended Use

The Maestro System[™] may be used in the mandible and maxilla for use as an artificial root structure for single tooth replacement or as abutments for fixed bridgework and dental retention. The indications and intended use of the modified Maestro System[™] endosseous implants as described in its labeling has not changed.

Technological Characteristics

The fundamental scientific technology of the modified device has not changed; the only change has been to add implant lengths of 7mm and 10.5mm. All materials, suppliers, processing, packaging and sterilization methods remain the same. The 7mm and 10.5mm length Maestro System ™ dental implants are substantially equivalent to all features of the predicate devices which could affect safety or effectiveness due to the similarities in design, material and intended use.



FEB 2 6 2003

Food and Drug Administration 9200 Corporate Boulevard Rockville MD 20850

Mr. Winston Greer Director, QA/RA BioHorizons Implant Systems, Incorporated One Perimeter Park South, Suite 230 South Birmingham, Alabama 35243

Re: K030463

Trade/Device Name: The Maestro System[™] 7mm & 10.5 Endosseous Implants

Regulation Number: 872.3640

Regulation Name: Endosseous Implant

Regulatory Class: III Product Code: DZE

Dated: February 10, 2003 Received: February 12, 2003

Dear Mr. Greer:

We have reviewed your Section 510(k) premarket notification of intent to market the device referenced above and have determined the device is substantially equivalent (for the indications for use stated in the enclosure) to legally marketed predicate devices marketed in interstate commerce prior to May 28, 1976, the enactment date of the Medical Device Amendments, or to devices that have been reclassified in accordance with the provisions of the Federal Food, Drug, and Cosmetic Act (Act) that do not require approval of a premarket approval application (PMA). You may, therefore, market the device, subject to the general controls provisions of the Act include requirements for annual registration, listing of devices, good manufacturing practice, labeling, and prohibitions against misbranding and adulteration.

If your device is classified (see above) into either class II (Special Controls) or class III (PMA), it may be subject to such additional controls. Existing major regulations affecting your device can be found in the Code of Federal Regulations, Title 21, Parts 800 to 898. In addition, FDA may publish further announcements concerning your device in the <u>Federal Register</u>.

Please be advised that FDA's issuance of a substantial equivalence determination does not mean that FDA has made a determination that your device complies with other requirements of the Act or any Federal statutes and regulations administered by other Federal agencies. You must comply with all the Act's requirements, including, but not limited to: registration and listing (21 CFR Part 807); labeling (21 CFR Part 801); good manufacturing practice requirements as set forth in the quality systems (QS) regulation (21 CFR Part 820); and if applicable, the electronic product radiation control provisions (Sections 531-542 of the Act); 21 CFR 1000-1050.

This letter will allow you to begin marketing your device as described in your Section 510(k) premarket notification. The FDA finding of substantial equivalence of your device to a legally marketed predicate device results in a classification for your device and thus, permits your device to proceed to the market.

If you desire specific advice for your device on our labeling regulation (21 CFR Part 801), please contact the Office of Compliance at (301) 594-4613. Also, please note the regulation entitled, "Misbranding by reference to premarket notification" (21 CFR Part 807.97). You may obtain other general information on your responsibilities under the Act from the Division of Small Manufacturers, International and Consumer Assistance at its toll-free number (800) 638-2041 or (301) 443-6597 or at its Internet address http://www.fda.gov/cdrh/dsma/dsmamain.html

Sincerely yours,

Susan Runner, DDS, MA

Interim Director

Division of Anesthesiology, General Hospital, Infection Control and Dental Devices

Office of Device Evaluation

Center for Devices and Radiological Health

Enclosure

Page 1 of 1
510(k) Number (if known):
Device Name: The Maestro System™ 7mm & 10.5mm Endosseous Implants
Indications for Use:
The Maestro System™ endosseous implants may be used in the mandible and maxilla for use as an artificial root structure for single tooth replacement or as abutments for fixed bridgework and dental retention.
PLEASE DO NOT WRITE BELOW THIS LINE - CONTINUE ON ANOTHER PAGE IF NEEDED Concurrence of CDRH, Office of Device Evaluation (ODE)
Susa Rioses
(Division Sign-Off) Division of Anesthesiology, General Hospital, Infection Control, Dental Devices
510(k) Number: K030463
Prescription Use OR Over-the-Counter Use (per 21 CFR 801.109)

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